

Claims 8 and 11 stand rejected under 35 U.S.C. 102(b) as being anticipated by Miyahara et al., US Patent No. 5,940,268 (hereinafter "Miyahara").

Applicants respectfully traverse the rejections made by the Examiner for the reasons discussed below.

Claim 8 recites an embedded centrifugal cooling device. The embedded centrifugal cooling device comprises a heat sink and a centrifugal fan. The heat sink includes a plurality of cooling fins, and said cooling fins define an annular cavity. The centrifugal fan is formed in said annular cavity so as to be embedded into said heat sink.

Miyahara teaches a heat sink 82 with radiator fins 83. An axial fan 85 is disposed in a round cavity of the heat sink 82. It is noted that the fan 85 in the citation is axial-typed; therefore, Miyahara does not disclose the heat sink with the centrifugal fan. It is also noted that the cavity in Miyahara is round; therefore, Miyahara does not disclose the heat sink with the annular cavity.

Furthermore, in this application, since the cooling fin is vertical to the wind generated by the centrifugal fan, the contact area between the cooling fin and the wind generated by the centrifugal fan is maximized.

Thus, the cooling effect can be optimized. However, in Miyahara, since the fin 83 is parallel to the wind generated by the axial fan 85, the cooling effect cannot attain the same goal as achieved in this application.

In addition, in this application, blades of the centrifugal fan 200 are embedded in the heat sink 100. Specifically, since the blades of the centrifugal fan 200 are embedded in the heat sink 100, both sides of each blade are adjacent to the fins 110 of the heat sink 100. Thus, when the centrifugal fan 200 is rotated, the fins 110 of the heat sink 100 can attain better cooling effect due to the arrangement between the blades and the fins.

Miyahara does not teach that the centrifugal fan is formed in the annular cavity. For at least these reasons, Applicants submit that Claim 8 is patentable over the cited art. Insofar as Claim 11 depends from Claim 8, Applicants submit that Claim 11 is also allowable, for at least the reasons stated above.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Miyahara in view of Liang et al., Patent Publication No. US 2002/0018336.

Since Miyahara does not disclose all the limitations of Claim 8, and claim 12 depends from Claim 8, Applicants submit that claim 12 is also allowable, for at least the reasons set forth above.

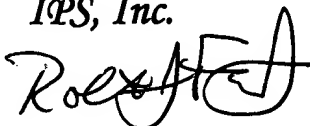
In view of the remarks set forth above distinguishing the claimed invention from the cited prior art references, Applicants submit that the Examiner's rejections have been overcome. It is therefore respectfully requested that the Examiner withdraw the rejections and allow the present claims.

If, for any reason, it is felt that this application is not now in condition for allowance, the Examiner is requested to contact Applicants' undersigned attorney at the telephone number indicated below to arrange for an interview to expedite the disposition of this case.

In the event that this paper is not timely filed, Applicants respectfully petition for an appropriate extension of time. The fees for such an extension or any other fees which may be due with respect to this paper, may be charged to Deposit Account No. 50-2394.

Respectfully submitted,

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